

## ABSTRACT

A large profile, high speed laser micrometer is formed from a light source unit comprised of a plurality of emitter modules that combine to emit a laser sheet and a detector array comprised of a plurality of detector modules. The laser micrometer also includes a data processing unit. Each of the emitter modules is aligned with a corresponding detector module such that an object passing between the light source unit and the detector array can be measured to an accuracy of at least 4/100ths of an inch.